

National Transportation Safety Board

FACTUAL REPORT
AVIATION

NTSB Accident/Incident Number

M I A 9 9 F A 2 4 5

Supplement D— Cockpit Documentation, Multi (3 or more) Reciprocating Engine and Turbine
Powered Aircraft1 Cockpit Secured, Readings Not Pertinent ☒ Yes (Go to block 3)2 Cockpit/Instrument Panel Destroyed ☐ Yes (Go to block 3)

Cockpit Instrument Indications—

Enter direct in appropriate category

Flight Instruments

Engine Instruments

Item

Reading/Setting

Item

Reading/Setting

Heading
ALTIMETER130°
50'

FUEL QUANTITY

0

National Transportation Safety Board

**FACTUAL REPORT
AVIATION**

NTSB Accident/Incident Number

M | T | A | 9 | 9 | F | A | 2 | 4 | 5 |

Supplement D— Cockpit Documentation, Multi (3 or more) Reciprocating Engine and Turbine
Powered Aircraft (continued)

Cockpit Instrument Indications (continued)—

Enter direct in appropriate category

Aircraft System Instrumentation

Communications and Navigation Equipment

Item

Reading/Setting

Item

Frequency/Setting/Reading

Fuel Flow

280 LBS/Hr

National Transportation Safety Board

FACTUAL REPORT
AVIATION

NTSB Accident/Incident Number

M1A95FA245

Supplement D— Cockpit Documentation, Multi (3 or more) Reciprocating Engine and Turbine
Powered Aircraft (continued)

Aircraft Equipment

| | | | | | | | | | |
|--|--|---|--|---|--|--|--|--|--|
| 3 Aircraft Certified For Two-Pilot Operation 1 <input checked="" type="checkbox"/> Yes 2 <input type="checkbox"/> No A Other | | 4 Autopilot 1 <input checked="" type="checkbox"/> Not installed 2 <input type="checkbox"/> Engaged 3 <input type="checkbox"/> Not engaged A Other | | 5 Digital Electronic Nav/Comm Displays 1 <input checked="" type="checkbox"/> Not installed 2 <input type="checkbox"/> Installed A Other | | 6 Heads Up Display 1 <input checked="" type="checkbox"/> Not installed 2 <input type="checkbox"/> In use 3 <input type="checkbox"/> Not in use A Other | | | |
| 7 Nav Equipment/Displays Installed (Multiple entry) 1 <input checked="" type="checkbox"/> OMNI heads 2 <input checked="" type="checkbox"/> Glide slope 3 <input checked="" type="checkbox"/> HSI 4 <input checked="" type="checkbox"/> Flight director 5 <input type="checkbox"/> RMI 6 <input type="checkbox"/> RNAV 7 <input type="checkbox"/> INS 8 <input type="checkbox"/> VLF/Omega 9 <input type="checkbox"/> LORAN 10 <input checked="" type="checkbox"/> DME 11 <input checked="" type="checkbox"/> ADF 12 <input checked="" type="checkbox"/> Marker beacons A Other | | | | 8 Left Panel Altimeter Type 1 <input type="checkbox"/> Not installed 2 <input checked="" type="checkbox"/> Counter/pointer 3 <input type="checkbox"/> Drum/pointer 4 <input type="checkbox"/> 3-pointer 5 <input type="checkbox"/> 2-pointer A Other | | 9 Right Panel Altimeter Type 1 <input type="checkbox"/> Not installed 2 <input type="checkbox"/> Counter/pointer 3 <input type="checkbox"/> Drum/pointer 4 <input type="checkbox"/> 3-pointer 5 <input checked="" type="checkbox"/> 2-pointer A Other | | 10 Standby Altimeter 1 <input checked="" type="checkbox"/> Not installed 2 <input type="checkbox"/> Installed A Other 11 Radar Altimeter 1 <input type="checkbox"/> Not installed 2 <input type="checkbox"/> Installed A Other | |
| 12 Angle of Attack Indicator 1 <input checked="" type="checkbox"/> Not installed 2 <input type="checkbox"/> Installed A Other | | 13 Attitude Indicators Installed and Operating (Multiple entry) 1 <input checked="" type="checkbox"/> Left position 2 <input checked="" type="checkbox"/> Right position 3 <input type="checkbox"/> None operating A Other | | 14 Primary Attitude Indicator Power Source (Multiple entry) 1 <input type="checkbox"/> Pressure/vacuum system 2 <input checked="" type="checkbox"/> Pressure/vacuum system with backup power source 3 <input checked="" type="checkbox"/> Electrical 4 <input type="checkbox"/> Standby indicator with alternate power source A Other | | | | 15 Type of Stall Warning Indicator (Multiple entry) 1 <input type="checkbox"/> Visual/light 2 <input type="checkbox"/> Visual/gauge 3 <input checked="" type="checkbox"/> Aural 4 <input type="checkbox"/> Stickpusher 5 <input type="checkbox"/> Stickshaker A Other | |
| 16 Stall Warning System Capable of Operation 1 <input checked="" type="checkbox"/> Yes 2 <input type="checkbox"/> No 3 <input type="checkbox"/> Partial A Other | | | | 17 Transponder 1 <input type="checkbox"/> Not installed 2 <input type="checkbox"/> Installed-not used 3 <input checked="" type="checkbox"/> Installed-used 4 <input type="checkbox"/> Installed-used-altimeter encoding A Other | | | | 18 Weather Radar/Detection Equipment 1 <input type="checkbox"/> Not installed 2 <input type="checkbox"/> Installed-on 3 <input type="checkbox"/> Installed-off 4 <input checked="" type="checkbox"/> Installed, on/off unknown A Other | |
| 19 Weather Radar 1 <input type="checkbox"/> Operative 2 <input type="checkbox"/> Inoperative A Other <u>UNK</u> | | 20 Type Weather Radar/Detection Equipment 1 <input type="checkbox"/> Storm scope 2 <input type="checkbox"/> Black and white radar 3 <input checked="" type="checkbox"/> Color radar A Other | | | | | | | |

Electric/System Switches

24 ☐ Switches Destroyed/Inaccessible (Go to block 76)25 ☒ Switch Positions Not Pertinent (Go to block 76)

| Switch/Item | | | | A Other | Pertinent Setting/Remark |
|----------------------------|-----------------|------|-------|---------|--------------------------|
| | 1 Not Installed | 2 On | 3 Off | | |
| 26 Electrical Master | | | | | |
| 27 Battery | | | | | |
| 28 APU | | | | | |
| 29 #1 Gen/Alternator | | | | | |
| 30 #2 Gen/Alternator | | | | | |
| 31 #3 Gen/Alternator | | | | | |
| 32 #4 Gen/Alternator | | | | | |
| 33 Inverter | | | | | |
| 34 Avionics Master | | | | | |
| 37 Pitot Heat | | | | | |
| 38 Engine/Nacelle Anti-Ice | | | | | |
| 39 Engine Deice | | | | | |
| 40 Ice Detection | | | | | |

National Transportation Safety Board

FACTUAL REPORT
AVIATION

NTSB Accident/Incident Number

M I A 9 9 F B 2 4 5

Supplement D— Cockpit Documentation, Multi (3 or more) Reciprocating Engine and Turbine
Powered Aircraft (continued)

Electric/System Switches (continued)

| Switch/Item | 1 Not Installed | 2 On | 3 Off | A Other (Enter code) | Pertinent Setting/Remark |
|-------------------------------|-----------------|------|-------|-------------------------|--------------------------|
| 41 Propeller Deice/Anti-Ice | | | | | |
| 42 Windshield Deice | | | | | |
| 43 Windshield Anti-Ice | | | | | |
| 44 Airframe Deice | | | | | |
| 47 Cockpit Air/Fan | | | | | |
| 48 Cabin Air/Fan | | | | | |
| 49 Cabin Heater | | | | | |
| 50 Air Conditioning | | | | | |
| 51 Cabin Pressure Altitude | | | | | |
| 52 Cabin Pressure Temperature | | | | | |
| 53 Crew Oxygen | | | | | |
| 54 Cabin/Passenger Oxygen | | | | | |
| 57 Taxi Lights | | | | | |
| 58 Landing Lights | | | | | |
| 59 Rotating Beacon | | | | | |
| 60 Strobes | | | | | |
| 61 Navigation Lights | | | | | |
| 62 Instrument Panel Lights | | | | | |
| 63 Cockpit/Storm Lights | | | | | |
| 64 Cabin Lights | | | | | |
| 65 Seat Belt Light | | | | | |
| 66 No Smoking Light | | | | | |
| 67 ELT Remote | | | | | |
| 70 Antiskid System | | | | | |
| 71 Ground Proximity Warning | | | | | |
| 72 Altitude Alert | | | | | |
| 73 Collision Avoidance System | | | | | |

Engine Controls—No. 1 Engine

76 ☒ Engine Control Positions Not Pertinent (Go to No. 2 Engine)

| | | | | | |
|---|--|---|--|---|--|
| 77 Throttle 1 <input type="checkbox"/> Not installed 2 <input checked="" type="checkbox"/> Full forward 3 <input type="checkbox"/> Midrange 4 <input type="checkbox"/> Idle A Other | 78 Condition/Power 1 <input type="checkbox"/> Not installed 2 <input checked="" type="checkbox"/> Full forward 3 <input type="checkbox"/> Midrange 4 <input type="checkbox"/> Idle 5 <input type="checkbox"/> Reverse 6 <input type="checkbox"/> Off A Other | 79 Mixture 1 <input checked="" type="checkbox"/> Not installed 2 <input type="checkbox"/> Full rich 3 <input type="checkbox"/> Midrange 4 <input type="checkbox"/> Idle cutoff 5 <input type="checkbox"/> Auto A Other | 80 Propeller 1 <input type="checkbox"/> Not installed 2 <input checked="" type="checkbox"/> Power range 3 <input type="checkbox"/> Reverse 4 <input type="checkbox"/> Feather 5 <input type="checkbox"/> Beta A Other | 81 Carburetor Heat 1 <input checked="" type="checkbox"/> Not installed 2 <input type="checkbox"/> Full on 3 <input type="checkbox"/> Partial 4 <input type="checkbox"/> Off A Other | 82 Alternate Air 1 <input type="checkbox"/> Not installed 2 <input type="checkbox"/> Open 3 <input type="checkbox"/> Closed 4 <input type="checkbox"/> Midrange A Other <i>UNK</i> |
| 83 Cowl Flaps 1 <input checked="" type="checkbox"/> Not installed 2 <input type="checkbox"/> Open 3 <input type="checkbox"/> Closed 4 <input type="checkbox"/> Midrange A Other | 84 Magneto Switch Position 1 <input checked="" type="checkbox"/> Not installed 2 <input type="checkbox"/> Both 3 <input type="checkbox"/> Left 4 <input type="checkbox"/> Right 5 <input type="checkbox"/> Off A Other | 85 Auto Ignition 1 <input type="checkbox"/> Not installed 2 <input type="checkbox"/> On 3 <input type="checkbox"/> Off A Other <i>UNK</i> | 86 Auto Feather 1 <input type="checkbox"/> Not installed 2 <input type="checkbox"/> On 3 <input type="checkbox"/> Off A Other <i>UNK</i> | 87 Throttle Quadrant Friction 1 <input type="checkbox"/> Not installed 2 <input type="checkbox"/> Tight 3 <input type="checkbox"/> Loose A Other <i>UNK</i> | |

National Transportation Safety Board

FACTUAL REPORT
AVIATION

NTSB Accident/Incident Number

MTA 99 FA 2451

Supplement D— Cockpit Documentation, Multi (3 or more) Reciprocating Engine and Turbine
Powered Aircraft (continued)

Engine Controls—No. 2 Engine

88 ☐ Engine Control Positions Not Pertinent (Go to No. 3 Engine)

89 Throttle

- 1 ☐ Not installed
 2 ☒ Full forward
 3 ☐ Midrange
 4 ☐ Idle
 A Other

90 Condition/Power

- 1 ☐ Not installed
 2 ☒ Full forward
 3 ☐ Midrange
 4 ☐ Idle
 5 ☐ Reverse
 6 ☐ Off
 A Other

91 Mixture

- 1 ☒ Not installed
 2 ☐ Full rich
 3 ☐ Midrange
 4 ☐ Idle cutoff
 5 ☐ Auto
 A Other

92 Propeller

- 1 ☐ Not installed
 2 ☒ Power range
 3 ☐ Reverse
 4 ☐ Feather
 5 ☐ Beta
 A Other

93 Carburetor Heat

- 1 ☒ Not installed
 2 ☐ Full on
 3 ☐ Partial
 4 ☐ Off
 A Other

94 Alternate Air

- 1 ☒ Not installed
 2 ☐ Open
 3 ☐ Closed
 4 ☐ Midrange
 A Other

95 Cowl Flaps

- 1 ☒ Not installed
 2 ☐ Open
 3 ☐ Closed
 4 ☐ Midrange
 A Other

96 Magneto Switch Position

- 1 ☒ Not installed
 2 ☐ Both
 3 ☐ Left
 4 ☐ Right
 5 ☐ Off
 A Other

97 Auto Ignition

- 1 ☐ Not installed
 2 ☐ On
 3 ☐ Off
 A Other UNK

98 Auto Feather

- 1 ☐ Not installed
 2 ☐ On
 3 ☐ Off
 A Other UNK

99 Throttle Quadrant Friction

- 1 ☐ Not installed
 2 ☐ Tight
 3 ☐ Loose
 A Other UNK

Engine Controls—No. 3 Engine

100 ☒ Engine Control Positions Not Pertinent (Go to No. 4 Engine)

101 Throttle

- 1 ☐ Not installed
 2 ☐ Full forward
 3 ☐ Midrange
 4 ☐ Idle
 A Other

102 Condition/Power

- 1 ☐ Not installed
 2 ☐ Full forward
 3 ☐ Midrange
 4 ☐ Idle
 5 ☐ Reverse
 6 ☐ Off
 A Other

103 Mixture

- 1 ☐ Not installed
 2 ☐ Full rich
 3 ☐ Midrange
 4 ☐ Idle cutoff
 5 ☐ Auto
 A Other

104 Propeller

- 1 ☐ Not installed
 2 ☐ Power range
 3 ☐ Reverse
 4 ☐ Feather
 5 ☐ Beta
 A Other

105 Carburetor Heat

- 1 ☐ Not installed
 2 ☐ Full on
 3 ☐ Partial
 4 ☐ Off
 A Other

106 Alternate Air

- 1 ☐ Not installed
 2 ☐ Open
 3 ☐ Closed
 4 ☐ Midrange
 A Other

107 Cowl Flaps

- 1 ☐ Not installed
 2 ☐ Open
 3 ☐ Closed
 4 ☐ Midrange
 A Other

108 Magneto Switch Position

- 1 ☐ Not installed
 2 ☐ Both
 3 ☐ Left
 4 ☐ Right
 5 ☐ Off
 A Other

109 Auto Ignition

- 1 ☐ Not installed
 2 ☐ On
 3 ☐ Off
 A Other

110 Auto Feather

- 1 ☐ Not installed
 2 ☐ On
 3 ☐ Off
 A Other

111 Throttle Quadrant Friction

- 1 ☐ Not installed
 2 ☐ Tight
 3 ☐ Loose
 A Other

Engine Controls—No. 4 Engine

112 ☒ Engine Control Positions Not Pertinent (Go to block 124)

113 Throttle

- 1 ☐ Not installed
 2 ☐ Full forward
 3 ☐ Midrange
 4 ☐ Idle
 A Other

114 Condition/Power

- 1 ☐ Not installed
 2 ☐ Full forward
 3 ☐ Midrange
 4 ☐ Idle
 5 ☐ Reverse
 6 ☐ Off
 A Other

115 Mixture

- 1 ☐ Not installed
 2 ☐ Full rich
 3 ☐ Midrange
 4 ☐ Idle cutoff
 5 ☐ Auto
 A Other

116 Propeller

- 1 ☐ Not installed
 2 ☐ Power range
 3 ☐ Reverse
 4 ☐ Feather
 5 ☐ Beta
 A Other

117 Carburetor Heat

- 1 ☐ Not installed
 2 ☐ Full on
 3 ☐ Partial
 4 ☐ Off
 A Other

118 Alternate Air

- 1 ☐ Not installed
 2 ☐ Open
 3 ☐ Closed
 4 ☐ Midrange
 A Other

119 Cowl Flaps

- 1 ☐ Not installed
 2 ☐ Open
 3 ☐ Closed
 4 ☐ Midrange
 A Other

120 Magneto Switch Position

- 1 ☐ Not installed
 2 ☐ Both
 3 ☐ Left
 4 ☐ Right
 5 ☐ Off
 A Other

121 Auto Ignition

- 1 ☐ Not installed
 2 ☐ On
 3 ☐ Off
 A Other

122 Auto Feather

- 1 ☐ Not installed
 2 ☐ On
 3 ☐ Off
 A Other

123 Throttle Quadrant Friction

- 1 ☐ Not installed
 2 ☐ Tight
 3 ☐ Loose
 A Other

National Transportation Safety Board

**FACTUAL REPORT
AVIATION**

NTSB Accident/Incident Number

M I A 9 9 F I A 2 4 5

**Supplement D— Cockpit Documentation, Multi (3 or more) Reciprocating Engine and Turbine
Powered Aircraft (continued)**

Landing Gear Controls/Indicators and Flight Control/Indicators

124 Landing Gear Control

- 1 ☐ Not installed
2 ☐ Up
3 ☒ Down
4 ☐ Neutral/off
A Other

125 Landing Gear Indicator

- 1 ☐ Not installed
2 ☐ Up
3 ☒ Down
4 ☐ Transit/unsafe
A Other

126 Trailing Edge Flap Control

- 1 ☐ Not installed
2 ☒ Up
A Down _____ deg.
B Other

127 Trailing Edge Flap Indicator

- 1 ☐ Not installed
2 ☒ Up
A Down _____ deg.
B Other

128 Leading Edge Flap Control

- 1 ☒ Not installed
2 ☐ Up
A Down _____ deg.
B Other

129 Leading Edge Flap Indicator

- 1 ☒ Not installed
2 ☐ Up
A Down _____ deg.
B Other

130 Leading Edge Slat Control

- 1 ☒ Not installed
2 ☐ Up
A Down _____ deg.
B Other

131 Leading Edge Slat Indicator

- 1 ☒ Not installed
2 ☐ Up
A Down _____ deg.
B Other

132 Flight Spoiler Control

- 1 ☒ Not installed
2 ☐ Stowed
3 ☐ Deployed
A Other

133 Ground Spoiler Control

- 1 ☒ Not installed
2 ☐ Stowed
3 ☐ Armed
4 ☐ Deployed
A Other

134 Drag Chute

- 1 ☒ Not installed
2 ☐ Stowed
3 ☐ Deployed
A Other

135 Autothrottle

- 1 ☒ Not installed
2 ☐ Engaged
3 ☐ Not engaged
A Other

136 Dual Controls

- 1 ☐ Not installed
2 ☒ Installed
A Other

137 Elevator/Stab Trim Control

- 1 ☐ Not installed
2 ☐ Up
3 ☐ Down
4 ☒ Neutral
A Other

138 Aileron Trim Indicator

- 1 ☐ Not installed
2 ☐ Left
3 ☐ Right
4 ☒ Neutral
A Other

139 Upper Rudder Trim Indicator

- 1 ☒ Not installed
2 ☐ Left
3 ☐ Right
4 ☐ Neutral
A Other

140 Lower Rudder Trim Indicator

- 1 ☒ Not installed
2 ☐ Left
3 ☐ Right
4 ☐ Neutral
A Other